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#### ABSTRACT

This paper traces the history of "The Right Start," discussing differences between the 50 largest cities and the nation overall and differences among states. It highlights eight measures reflecting a healthy start: teen births, repeat teen births, births to unmarried women, births to mothers with low educational attainment, late or no pregnancy care, smoking during pregnancy, low-birthweight births, and preterm births. Mother's age, educational attainment, and marital status are often related to the newborn's socioeconomic and social status. Poverty rates for children born to unmarried, teenage high school dropouts are 10 times those of children born to unmarried high school graduates over age 20 years. Low birthweight and short gestation are closely linked to newborn health. Mortality rates for low-birthweight babies are 20 times those of normal-birthweight babies. Conditions such as inadequate prenatal care and/or smoking during pregnancy affect birth outcomes. Between 1990-99, five of the eight measures improved nationally, though births to unmarried women increased substantially. The largest cities lagged behind the nation on everything but smoking during pregnancy. The 50 cities made important progress during the 1990s on the same five measures that improved nationally. (SM)





# THE RIGHT START FOR AMERICA'S NEWBORNS A DECADE OF CITY AND STATE TREND(\$1990-1999)

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## Child Trends / KIDS COUNT Working Paper

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## and accuracy. The agency performs a valuable and often overlooked public service, for which we are most grateful.

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consistently carried out its mission with exceptional attention to quality

public and the research and policy communities. Its staff has

this publication. For several decades, NCHS has consistently gathered, disseminated, and explained health and vital statistics to the American

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This report is also available on the Internet at www.childtrends.org and www.kidscount.org

The Right Start for America's Newborns

## **Executive summary**

Conditions surrounding a child's birth often reflect the forces that will shape a young person's life. Whether an expectant mother smokes, whether she receives prenatal care, how much education a new mother has, and her age when she gives birth are valuable predictors of the resources that are likely to be available to a child.

Using birth certificate data provided by the National Center for Health Statistics, we focus on eight measures which reflect a healthy start to life. These measures are provided for the country as a whole, for all 50 states and the District of Columbia, and for the 50 largest cities.

The eight measures are:

- Teen Births
- Repeat Teen Births
- Births to Unmarried Women
- Births to Mothers with Low Educational Attainment
- Late or No Prenatal Care
- Smoking During Pregnancy
  - Low-Birthweight Births
- Preterm Births

It is important to track these measures because they are all related in some way to the life prospects of a newborn. Among the measures examined in this study are the age, educational attainment and marital status of the mother which are often related to the social and economic status of a newborn's family. For example, the poverty rate for children born to an unmarried, teenage high school dropout (80%) is ten times that of children born to married woman over age 20 who has completed high school (8%). Some measures used in this study, such as low birthweight and a short gestation period, are closely linked to the health of a newborn. The infant mortality rate for low-birthweight babies is 20 times that of babies born at normal birthweight. Conditions a woman experiences during pregnancy, such as lack of adequate prenatal care and/or smoking, affect birth outcomes. Studies show that tobacco use during pregnancy is linked to negative consequences for child health and development.

National results. Between 1990 and 1999, five of the eight measures of a healthy start to life improved;

- teen births,
- repeat teen births,
- births to mothers with low educational attainment,
- late or no prenatal care, and
- smoking during pregnancy.

However, there was some bad news as well during the 1990s. There was a substantial increase in the percentage of births to unmarried women, as well as small increases in the percentages of births that were low-birthweight and births that were preterm.

City results. Conditions surrounding births in the largest cities were clearly not as good, on average, as births elsewhere. The largest cities lagged behind the nation as a whole on all but one measure (smoking during pregnancy). On the other hand, the 50 cities as a group made important progress during the 1990s. There were improvements in the same five measures that improved nationally (see above). Moreover, in six out of the seven cases where cities lagged behind the rest of the country, they have narrowed the gap during the 1990s. Nonetheless, the percent of births to unmarried women was substantially higher in 1999 than it was in 1990, the percent of births that were low birthweight increased very slightly, and there was virtually no change in the percent of births that were preterm.

While some patterns and trends are clear, it is equally clear that there is enormous variation across the 50 states and among large cities. This indicates that, for most states and localities, there is plenty of room for improvement. The wide variations across the country also indicate that social policies designed to help children and families need to be developed within the context of state and local conditions.

This Working Paper updates previous *Right Start* reports by providing a text update focused on the nation and on the 50 largest cities as a whole. Updated data are also available for the 50 largest cities (plus 5 additional cities that are of special interest to the Annie E. Casey Foundation) and the 50 states through 1999 (including an abbreviated text update) on the KIDS COUNT website, <a href="http://www.kidscount.org">http://www.kidscount.org</a>.

being of newborns in the United States. Similar data for states were In 1999, the Annie E. Casey Foundation published The Right Start:

Frends shows that babies born at the end of the 1990s were generally more

The Right Start for America's Newborns: A Decade of City and State

earlier part of the decade. In five out of eight measures of a healthy birth,

likely to get off to a healthy start to life than children born during the

room for improvement remains. This is certainly the case for the country's

persisted across the 50 states, indicating that, for many localities, much

the nation made modest improvements. Nevertheless, wide variations

urban areas remain less likely than children born elsewhere to get off to a

healthy start to life.

behind the national average. Even though the cities made improvements

50 largest cities, where, as a group, all but one birth measure lagged

during the decade on many measures of a healthy birth, babies born in

age when she gives birth all are valuable predictors of children's outcomes.

she receives prenatal care, how much education a new mother has and her

shape a young person's life. Whether an expectant mother smokes, whether

Conditions surrounding a child's birth often reflect the forces that will

provided annual data for each year back to 1990. Third, we provided a oneperiod. Fourth, we published a separate companion book focused on stateexpanded the original Right Start in several ways. First, we updated the page narrative description of how each city fared during the 1990-1998 In 2001, in an effort to increase the usefulness of these indicators, we data through 1998, the most recent year then available. Second, we

The resulting publications were two Child Trends/KIDS COUNT Special Reports: The Right Start City Trends and The Right Start State Trends.

text update in this Working Paper, plus updated data for 55 cities and the 50 states through 1999 (including an abbreviated text update of key findings In 2002, we are updating these reports by providing a nationally focused for each city and state) on the KIDS COUNT website, http://www.kidscount.org.

distressed neighborhoods in cities, have the most pressing needs. To place our city-level results in context, we also present the value of each indicator generally lag behind those for the nation as a whole. Moreover, a host of We focus on large cities because healthy birth measures in the large cities indicators and countless studies have shown that cities, and particularly averaged across the 50 largest cities. We also focus on states because they are a prime focus of policy-making for this book will allow readers to easily mesh the data provided here with data Data Books have traditionally focused on states, providing data on states in enough to provide reliable measures but small enough to reflect significant "devolution" era of the 1990s. In addition, since previous KIDS COUNT many of the programs that make a difference in healthy birth indicators. regional differences. To place our state-level results in context, we also provided in other KIDS COUNT publications. Finally, states are large State decision-making power has increased significantly during the present the value of each indicator for the U.S. as a whole.

We selected indicators that describe the well-being of infants at birth

Conditions of Babies and Their Families in America's Largest Cities, which provided 1997 city-level data for ten measures that characterize the wellpresented in the Appendix of that report.

evel data.

### Introduction

neasures in the 50 largest cities are generally not as good as elsewhere. We oirth indicators for inclusion. Next, we discuss the differences between the 50 largest cities and the nation as a whole, pointing out that healthy birth decided to focus on both cities and states, and how we selected specific including a discussion of what motivated the original project, why we hen discuss differences among the states and provide the reader with This Working Paper begins by tracing the history of The Right Start guidance for interpreting these differences.

ive states whose levels for that indicator were the most desirable (which we ndicator for both cities and states, including a listing of the five cities and The second part of the working paper is divided into separate sections for each of the eight indicators. Within each section, we begin by describing conclude the second part of the working paper with a brief discussion of why the indicator is important. We then provide a brief analysis of the indicator were the least desirable (which we label the "Bottom 5"). We abel the "Top 5") and the five cities and states whose levels for the acial and ethnic differences in the various indicators.

because conditions at birth often reflect the forces that will shape a young person's life. Indicators such as lack of timely prenatal care and smoking during pregnancy reflect conditions prior to birth that can affect the health of an infant. Other measures, such as birthweight and gestation period, often reflect health status at the time of birth. Finally, we included three characteristics of the mother (marital status, age, and education) that are likely to reflect conditions a newborn might experience early in life. Analysis shows that the poverty rate for children born to an unmarried, teenage, high school dropout is ten times the poverty rate among children born to a married women over age 20 with at least a high school diploma.<sup>2</sup>

We utilize birth certificate data compiled and provided by the National Center for Health Statistics (NCHS) because they provide one of the few sets of systematic measures reflecting child well-being that are available consistently for all large cities. From the birth certificates we were able to construct eight measures, which reflect some dimension of well-being:

- 1) Teen Births
- 2) Repeat Teen Births
- 3) Births to Unmarried Women
- 4) Births to Mothers with Low Educational Attainment
- 5) Late or No Prenatal Care
- 5) Smoking During Pregnancy
- 7) Low-Birthweight Births
- 8) Preterm Births

While these measures can hardly capture the full range of forces shaping the lives of newborns, the indicators used in this working paper reflect several important dimensions of a newborn's life. Moreover, these indicators are consistently measured across all of the cities and states and over time, permitting legitimate comparisons. Since many of the conditions related to a birth are linked to later developmental problems, the data illuminate future prospects for children.

The 55 cities that are the focus of this working paper include the 50 largest

cities as of 1997\* (according to population estimates from the U.S. Census Bureau) plus 5 other cities which are of special interest to the Casey. Foundation.

Five cites are included in this report but not ranked because they are not among the 50 largest cities in the United States. The five cities are:

- Des Moines, IA
- Hartford, CT
- Louisville, KY
- Providence, RI
- Savannah, GA

These cities are included in the report, but they are not included in the rankings because they are smaller than the 50 largest cities. With smaller populations, whatever rank they would have been given relative to the 50 largest cities might misrepresent their standing relative to cities of comparable size.

Differences between the 50 largest cities and the nation. This compilation of ten years of data continues to show that, collectively, cities lag behind the rest of the country for most measures of a healthy birth. Although the measures show enormous variation across the 50 cities, birth measures in the largest cities are clearly not as good, on average, as birth measures elsewhere. Table 1 shows how birth measures in the 50 largest cities compare to those nationwide. Here we show the simple 50-city averages, rather than weighted averages, because cities are treated as the unit of analysis in this study. In all but one case (the exception is smoking during pregnancy), the measures in large cities are worse than for the nation as a whole.

Birth data are reflective of a larger constellation of disadvantages faced by city kids. As shown in Figure 1, children in central cities are more likely to experience each of five risks associated with negative child outcomes.

On the other hand, as shown in Table 2, the 50 cities as a group made

We are using 1997 population to determine the 50 largest cities to be consistent with previous Right Start data books.

- teen births,
- repeat teen births,
- births to mothers with low education,
- late or no prenatal care, and
- smoking during pregnancy.

in 1999 than it was in 1990. The percentage of births that were low weight Only one measure—births to unmarried women—was substantially higher was just slightly higher in 1999 than in 1990, and the percentage of births hat were preterm remained stable.

narrowed for six of the seven measures in which the cities lagged behind. Moreover, when compared with the U.S. average for each measure (see Table 3), the gap between the 50 cities as a group and the U.S. average

declined from 15 percent to 14 percent, seven states experienced an increase in this percentage. However, in the case of repeat teen births, where the 50city average decreased from 27 percent to 23 percent, only 1 city showed an Although, for the 50-cities as a whole, the percentage of births to teens ncrease, and 31 cities recorded a decrease.

educational attainment. As the percentage of births to women with less than There was a somewhat similar mixed pattern for births to mothers with low experienced a decrease in the percentage of births to mothers with less than 2 years of education decreased from 29 percent to 27 percent, 30 cities 2 years of education, and 15 cities experienced an increase.

overwhelming majority of cities showed decreases. However, in the case of in the case of late or no prenatal care and smoking during pregnancy, where ow-birthweight births and preterm births, a plurality of states showed he 50-city average declined substantially for both measures, the ncreases

mask important variations within a city. For example, studies in Baltimore and Cleveland show that negative outcomes such as low-birthweight births It is important to recognize that the citywide numbers presented here may and infant mortality are concentrated in neighborhoods with high poverty and/or low per capita income.3 Studies suggest that negative birth

outcomes are part of a constellation of measures that point toward particular neighborhoods with concentrated poverty and diminished opportunity. 4

National Trends and Differences among the states. Our compilation of patterns among the states and significant trends for the nation as a whole. 10 years of state-level data has also revealed a number of interesting

births to unmarried women, as well as small increases in the percentages of pregnancy. However, there was a substantial increase in the percentage of As shown in Table 3, U.S. birth statistics improved for five measures of a healthy start to life-teen births, repeat teen births, births to mothers with low educational attainment, late or no prenatal care, and smoking during births that were low-birthweight and births that were preterm. Nationwide the percentage of births to teens declined from 13 percent to 12 percent, but 11 states actually experienced an increase in this percentage percentage decreased from 24 percent to 21 percent, no state showed an during the decade. In the case of repeat teen births, where the U.S. increase and 45 states recorded a decrease.

educational attainment. As the percentage of births to women with less than experienced a decrease in the percentage of births to mothers with less than 12 years of education decreased from 24 percent to 22 percent, 36 states There was a somewhat similar pattern for births to mothers with low 2 years of education, and 10 states experienced an increase.

In the case of late or no prenatal care and smoking during pregnancy, where the U.S. percentage declined substantially for both measures, nearly all the states showed decreases. However, in the case of low-birthweight births and preterm births, nearly all states showed increases. Interpreting the data. The key measures of a healthy start to life used here numbers of births and therefore may exhibit a degree of random fluctuation from year to year. Since small differences among cities may reflect random fluctuations rather than "real" distinctions in the well-being of children, we measures are not derived from samples, some are based on relatively small are all taken from data compiled by National Center for Health Statistics urge readers to focus on those differences and changes over time that are (NCHS) and reflect the official data for each indicator. While these relatively large.

In the following pages we describe each of the measures in more detail, discuss how the measure is related to broad, long-term outcomes, and explain why each measure was selected as an indicator of well-being,

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present an updated summary for each measure.

#### Findings

#### Teen births

diminished opportunities for both the child and the young mother.<sup>5</sup> Teen births are particularly troublesome because most of these mothers are Teenage childbearing is problematic because it is associated with unmarried, and a large segment has not completed high school.

Many young fathers are not fully prepared to take on all the responsibilities sercent of mothers ages 15 to 17 received child-support payments in 1997.6 teenage mothers are not settled in a job or career, and many young fathers March 2001 Current Population Survey show that only 56 percent had any If a large share of births in a city is occurring to teenagers, it means that a significant number or proportion of children are starting life with a parent who is unlikely to have the resources needed to provide for a child. Most earned income in 2000 and that the average annual income for those who are not able to help. Data from the Census Bureau indicate that only 10 of fatherhood. Data for all men between the ages of 16 to 19 from the

6						
199						
Percentage of births to teens, 1999 Top 5 cities	%9 20	2 % è	8%	20% 20%	20%	22%
s to t						
birth	CA			۷.	I _	
e of	San Francisco, CA	Honolulu, HI	New York, NY Rottom 5 cities	Cleveland, OH New Orleans, LA	Memphis, TN Milwairkee W	Baltimore, MD
Percentage Ton 5 cities	San Francis	Honolulu San loss	2 C 8		Memphis,	More
92.0	San	2 E 6			Men	Balt

ikely to receive late or no prenatal

Teenage mothers are also more

worked was slightly less than

\$6,200.<sup>7</sup>

care, and they also are more likely

older mothers. 8 Moreover, unlike

other age groups, the percent of

increased during the mid to late

teen mothers who smoke has

to smoke during pregnancy than

older women decreased.9 "As a consequence of these and other 1990s while smoking rates for

han 37 completed weeks of gestation) and low birthweight (less than 51/2 factors, babies born to teenagers are more likely to be born preterm (less pounds), and thus are at greater risk of serious and long-term illness, developmental delays, and of dying in the first year of life."10 Children born to teenage mothers are also less likely to obtain the emotional well-adjusted adults. Thus, babies born to teens reflect a group of children and financial resources they need to develop into independent, productive,

who will have to overcome high odds to thrive. (It should be noted that the measures used here is not the teen birth rate. That measure was not available.)

20 fluctuated between 15 and 16 percent from 1990 to 1995, remained at 15 to teenagers (6 percent), while Baltimore had the highest (22 percent). For occurred to teenagers. San Francisco had the lowest percent of total births the 50 cities as a whole, the average percent of births to women under age percent between 1995 and 1998, and then decreased to 14 percent in 1999 cenagers is influenced by the fertility of older women (above age 20) as City summary. In 1999, 14 percent of all births in the 50 largest cities See Table 2). It is important to note that the percent of total births to well as by the childbearing patterns of teens.

U.S. and State summary. In 1999, 12 percent of all births in the U.S. occurred to teenagers.

Mississippi had the highest (20 percent). <sup>11</sup> Nationally, the share slightly from 13 percent in 1990 ), although birth rates for teens to 12 percent in 1999 (see Table Massachusetts, New Hampshire, of births to teenagers decreased and New Jersey had the lowest percentage of total births to eenagers (7 percent), while dropped sharply during the

hs to teens, 1999	7%	7%	7%	8%	8%		16%	18%	18%	18%	20%	
Percentage of births to teens, 1999	Massachusetts	New Hampshire	New Jersey	Connecticut	Minnesota	Boffom 5 states	Oklahoma	Louisiana	Arkansas	New Mexico	Mississippi	

#### Repeat Teen Births

addition, teens who give birth a second or children are unlikely to receive the kinds provide for one child, and a second one of support that children need to thrive. Moreover, a high percentage of repeat Most teen mothers are ill equipped to Therefore, children born to a teenage mother who already has one or more third time face a higher risk of a very preterm birth (less than 33 weeks). 13 severely compounds that challenge.

, 1999	16% 16% 16%	18%	28%	30%	31%
Repeat teen births, 1999 Top 5 cities	Bosion, MA San Francisco, GA Honolulu, HI	Albuquerque, NM	Cleveland, OH Tulsa, OK	El Paso, TX Atlanta, GA	Memphis, TN

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from 28 percent in 1990 to 33 percent in 1994 and and has varied little since

33 percent in 1999) as shown in Table 3.

occurred to unmarried women. The percentage of total births to unmarried women ranged from a low of 17 percent in Utah to a high of 46 percent in Mississippi. The percentage of total births to unmarried women increased

J.S. and State summary. Nationwide in 1999, 33 percent of all births

teen births signals a problem with pregnancy prevention programs and offers a key opportunity for policy or program intervention. City summary. In 1999, 23 percent of all teen births in the 50 largest cities Juctuated throughout the 1990s. After increasing slightly from 27 percent already mothers ranged from a low of 14 percent in Boston to a high of 31 in 1990 to 28 percent in 1992, the average fell every year from 1993 until were repeat births. The percent of teen births to young women who were 1995, when it reached 23 percent. It has fluctuated narrowly since 1995, percent in Memphis and Atlanta. The 50-city average for this indicator

support award reflects the marital status of parents at the time of birth. Data

divorced single mothers. It should be noted, moreover, that many custodial

percent had a child-support award in place, compared to 70 percent of

from 1997 indicate that among never-married single mothers, only 47

parents with child-support awards in place never receive the money that hey are due. Only 22 percent of never-married single mothers actually

was 37 percent, compared to 21 percent for families headed by a divorced or separated mother. <sup>18</sup> Moreover, the likelihood of a child receiving a child-

poverty rate for single-parent families headed by a never-married mother

several advantages over those born to unmarried women. In 2000, the

Finally, unmarried mothers are more likely to receive inadequate prenatal care than are their married counterparts. <sup>17</sup>

married mothers (10.2 compared to 5.7 deaths per 1,000 live births). 16

Even if a marriage fails, children born into a married-couple family have

ultimately returning to 23 percent in 1999 (see Table 2).

of 25 percent in Mississippi. Across the nation, the percentage of teen births that U.S. and State summary. Twenty-one sercent of all births to teens were repeat 12 percent in New Hampshire to a high teen births in 1999. The percentage of teen births to young women who were already mothers ranged from a low of were repeat births decreased from 24 percent in 1990 to 21 percent in 1999 see Table 3).

**Births to Unmarried Women** 

n										
Nepeal teen biltiis, 1999 Top 5 states	12% 12%	15%	16%	16%		23%	23%	24%	25%	25%
2000 2000 2000 2000 2000 2000 2000 200	e.			5	5					
tes	New Hampshire		akota	Massachusetts	Bottom 5 states	e	99			īd
Nepeal leel Top 5 states	New Har	Maine	North Dakota	ssact	от 5	Louisiana	Tennessee	Georgia	Texas	Mississippi
	- 8 S	. ≅	ž	ž	Bott	2	Te	Ö	Te	Σ

Vermont	12%
Maine	12%
North Dakota	15%
Massachusetts	16%
Bottom 5 states Louisiana Tennessee	23%
Georgia	24%
Texas	25%
Mississippi	25%

unmarried women ranged from a low of 25 percent in San Francisco to a

occurred to unmarried women in 1999. The percent of total births to

City summary. Forty-three percent of all births in the 50 largest cities

received child-support payments in 1997, compared to 47 percent of divorced single mothers. 19

Births to unmarried women, 1999 Research shows that children growing up with a single mother "are more likely to drop out of school, to give birth out of wedlock, to divorce or separate, and to be dependent on welfare."14 Numerous recent studies **5**6% Colorado Springs, CO Seattle, WA Top 5 cities San Francisco, CA San Jose, CA Virginia Beach, VA New Orleans, LA Cleveland, OH St. Louis, MO Detroit, MI Battimore, MD **Bottom 5 cities** their fathers and their mothers."15 children. "Children develop best mortality rate of children born to an unmarried mother was almost when they are provided with the enduring relationships with both wice that of children born to document the importance of fathers in the lives of their opportunity to have warm, intimate, continuous, and Also, in 1998, the infant

n 1993 and was 43 percent in Baltimore. The 50-city data percent in 1990 to 45 percent 999 (see Table 3). A recent childbearing increased during the early 1990s. The percent factors associated with these trends.<sup>20</sup> of total births to unmarried women increased from 41 report details some of the high of 69 percent in show that nonmarital

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Research has consistently shown that the education level of a child's mother

Births to Women with Low Educational Attainment

is a good predictor of many child outcomes. <sup>21</sup> Consequently, children born

to women who have not graduated from high school face tough odds. The

nfant mortality rate for births to women with less than 12 years of

education was 9.1 deaths per 1,000 live births in 1998, compared to 6.3 for

women with at least a high school education.<sup>22</sup> Women who do not get a

educational and intellectual stimulation that their children need. In good formal education are often less likely to provide the kind of

education. Large proportions of births to women in California, Texas, and universal education is not prevalent are less likely to have a high school Arizona are to Hispanic women who, as a group, tend to have lower It is important to keep in mind that women born in countries where educational levels.

## Late or No Prenatal Care

Mothers who receive timely prenatal care are less likely to have babies with Failure to obtain early prenatal care may reflect a mother's indifference to pregnancy outcomes, are susceptible to intervention during prenatal care. diabetes, anemia, smoking, and inadequate nutrition, which might affect ner pregnancy, or it may reflect a lack of available health care. Either health problems. Many medical and behavioral risk factors, such as situation is cause for concern. A

woman who makes sure that she gets proper prenatal care is also likely to make sure that she does other things iving in central cities are much less reflect the fact that a woman is in a find timely prenatal care may also other kinds of resources are simply to protect her newborn. Failure to childbearing age (15 to 44), those not available. Among women of precarious situation where many

666						
Late or no prenatal care, 1999 Top 5 cities	2.1%	2.5%	2.7%	8.4%	9.3%	12.2% 12.6%
renata		. ()	Ą,	8 X	20	
Late or no p Top 5 cities	Honolulu, HI	Charlotte, NC	rresilo, ca Los Angeles, CA	Bottom 5 cities Fort Worth, TX	Washington, DC Detroit, MI	Albuquerque, NM El Paso, TX
Late 7	Hong	Char	S S LOS	Botto Fort	Was	Albu

percent of women in this age range living outside of central cities. 24 Since have health insurance. In 2000, 23 percent of women between the ages of 15 to 44 living in central cities had no health insurance, compared with 16 he availability of health insurance is related to obtaining good prenatal care, women in large cities are at a disadvantage. ikely than those living elsewhere to

1999 ranged from a low of 2.1 percent in Honolulu to a high of 12.6 percent were to women who received late or no prenatal care. The percentages in City summary. In the 50 largest cities, 5.2 percent of all births in 1999 in El Paso. As a 50-city average, this indicator fell yearly from 1990 to 996, and has remained nearly constant since then. The percent of total

#### addition, parents with less education are less likely to be effective advocates other institutions or public systems. school or encounter problems with for their children when they enter

Low educational attainment

op 5 cities

Finally, mothers with less than 12 to smoke during pregnancy and to years of education are more likely

receive inadequate prenatal care. 23

42% 13% 13% 13%

Colorado Springs, CO Virginia Beach, VA Honolulu, Hi Seattle, WA

Bottom 5 cities Pittsburgh, PA

Phoenix, AZ Houston, TX

Fresno, CA

City summary. For the 50 largest

84444 88848 88888

Los Angeles, CA

Dallas, TX

cities, 27 percent of all births were of education in 1999. The percent of total births to mothers with low to women with less than 12 years

levels of education ranged from a

low of 10 percent in Virginia Beach and Honolulu to a high of 45 percent in Dallas. The percent of total births in the 50 largest cities to women with

ess than 12 years of education was 29 percent in 1990, 30 percent in 1991

percent in 1999 (see Table 2). 28 percent in 1995, and 27 U.S. and State summary.

evels of education ranged from a women with less than 12 years of Dakota and New Hampshire to a total births to mothers with low Swenty-two percent of all U.S. education. The percentage of high of 33 percent in Texas. births in 1999 occurred to low of 10 percent in North

10% 10% 11% 11% 28% 28% 30% 33%	LOW COUCAINNIA ANAIMMENT 1999	Top 5 states	New Hampshire	Hawaii	Vermont	Bottom 5 states	New Mexico	Nevada	Arizona	California	Texas
	71 ditaini	30+	10%	11%	= =		28%	28%	30%	Š	33%

sercent in 1990, fell to 5.3 percent n 1996, and stood at a decade-low oirths to mothers receiving late or 5.2 percent in 1999 (see Table 2). no prenatal care started at 8.6

ate or no prenatal care, 1999-

### U.S. and State summary.

2.0% 8%

New Hampshire

Rhode Island

on 5 states

Bottom 5 states New York

North Dakota

Connecticut

Maine

lacked timely prenatal care in 1999 ranged from a low of 1.4 percent in care. Within the U.S., the share of oirths in 1999 occurred to mothers who received late or no prenatal births occurring to women who Nationwide, 3.8 percent of all

5.1% 5.5% 6.7% 7.0%

Nevada Arizona

Texas

New Mexico

share of mothers who received late or no prenatal care fell from 6.1 percent the U.S. as a whole improved on this measure of a healthy start to life. The Rhode Island to a high of 10.0 percent in New Mexico. During the 1990s, in 1990 to 3.8 percent in 1999 (see Table 3).

## Smoking During Pregnancy

Babies born to mothers who smoked during pregnancy are more likely to Smoking during pregnancy, 1999 have health problems. "Smoking during pregnancy is associated with adverse outcomes, including low-birthweight, intrauterine growth %%%**%**4 New Orleans, LA Top 5 cities Miami, FL retardation and infant mortality

Oklahoma City, OK Indianapolis, IN Pitsburgh, PA Columbus, OH Milwaukee, WI **Bottom 5 cities** Dallas, TX El Paso, TX Houston, TX prenatal maternal smoking has ooth male and female children consequences for child health substance abuse behaviors in when they become adults.26 Moreover, smoking during and development."25 In a been associated with both recently published study, criminal behavior and as well as negative pregnancy may be

symptomatic of other conditions that reflect an unhealthy approach to pregnancy and childbearing.

City summary. For the 42 cities with data in 1999, 10 percent of the total anged from a low of 2 percent in Miami and New Orleans to a high of 25 oirths were to mothers who smoked during pregnancy. The percentages during pregnancy has been declining, dropping from 18 percent in 1990 excluding Indianapolis, New York City, and the California cities) to 10 percent in Pittsburgh. The share of babies born to mothers who smoked percent in 1999 (see Table 2).

#### U.S. and State summary.

Smoking during pregnancy, 1999

Top 5 states

Arizona

Hawaii exas

Utah

22222 22222

reflect only the 46 states, plus the Between 1990 and 1998, data on smoking during pregnancy from Dakota were either not available standards. Therefore, these data during this period, and the U.S. New York, Indiana, and South oirth certificates in California, or not compatible with NCHS statistics in Table 3 for 1990 are missing for these states

Bottom 5 states North Dakota

Connecticut

19% 21% 21% 25% 26%

Wyoming Kentucky

Indiana

**Nest Virginia** 

these data were collected. In 1999, compatible data on smoking during pregnancy became available from all of New York State and Indiana. Thus, he U.S. statistics in Table 3 for 1999 reflect data for 48 states plus the District of Columbia, where District of Columbia.

mothers who smoked during pregnancy dropped from 18 percent in 1990 to 999, the percentages ranged from a low of 7 percent in Texas and Arizona during pregnancy in 1999. Among the 48 states that collected these data in 13 percent in 1999, with declines reported in all 46 states that reported in Thirteen percent of all births in the U.S. were to mothers who smoked to a high of 26 percent in West Virginia. The share of babies born to ooth years (see Table 3).

## Low-Birthweight Births (Less Than 5.5 Pounds)

ess than 2,500 grams (about 5.5 pounds) at birth have a high probability of While most American children get off to a healthy start, babies weighing

Data for 1999 on smoking during pregnancy in California were not compatible with NCHS standards. Therefore, data for California cities are not included in the average.

ikely to have health problems as they move through the growth stages than from serious illnesses, and dying in the first year of life. 28, 29 Therefore, the percent of low-birthweight births reflects a group of children who are more experiencing both motor and social developmental problems,<sup>27</sup> suffering are children born at a normal

weight.

birthweight births at 5.4 percent, and Mississippi had the highest percentage

the U.S. were low-birthweight. Oregon had the lowest percentage of low-

U.S. and State summary. Nearly 8 percent of the total births in 1999 in

at 10.3 percent. During the 1990s, the share of U.S. babies born weighing

this trend has been largely due to an increase in multiple births, which are less than 5.5 pounds increased from 7.0 percent to 7.6 percent. However,

much more likely to be low-birthweight. 32 The percentage of singleton births that were low-birthweight remained nearly unchanged during the  $1990s.^{33}$ 

Preterm Births (Less Than 37 Completed Weeks of

than 5.5 pounds in the 50 largest cities remained nearly constant at around

8.8 percent (see Table 2).

receive adequate early prenatal care bounds in 1999, accounting for 7.6 high percentage of low-birthweight percent of all births. The relatively mothers who lack health insurance were born weighing less than 5.5 births in the U.S. raises a number are more likely to give birth to a Nationally, over 300,000 babies shows that women who do not low-birthweight baby and that of troubling issues. Research

Bureau data for 1999, 33 percent of all Hispanics and 21 percent of all black non-Hispanics did not have health insurance. People living in poverty, high are less likely to seek and obtain prenatal care. According to Census

rop o states Oregon	5.4%	
Vermont	5.7%	
Washington Alaska	5.8%	
South Dakota	5.9%	
Tennessee	9.2%	
Alabama	9.3%	
South Carolina	9.8%	
Louislana	10.0%	
Mississippi	10.3%	

cities, 38 percent lacked health insurance.<sup>31</sup>

were low-birthweight. In 1999, Portland had the lowest percentage of lowbirthweight births at 5.4 percent, and Baltimore had the highest percentage at 14.7 percent. During the 1990s, the share of babies born weighing less City summary. Of all births in the 50 largest cities in 1999, 8.8 percent

	Washington, DC 13.1%
--	----------------------

central cities lacked health insurance those living in the suburbs and rural citizens, non-elderly adults with no work experience, and young adults (ages 18 to 24) are the groups least in 2000, compared to 16 percent of school dropouts, foreign-born nonareas. Among Hispanic women of women of childbearing age (15 to likely to have health insurance.30 44), 23 percent of those living in Finally, as stated earlier, among

childbearing age living in central

than infants born at longer gestations. 35 preterm, and more than three-fourths of hese deaths occur among those born at Moreover, preterm newborns are more Finally, preterm delivery is associated More than 90 percent of all neonatal with significant delays in motor and ikely to be neurologically impaired fewer than 32 weeks of gestation.34 social development, 36 and there is deaths occur among infants born recent evidence that educational

9% 9% 10% 10%

San Francisco, CA

San Jose, CA

Top 5 cities

Portland, OR

Preterm births, 1999

Gestation)

7 op 5 states Vermont Vermont Vermont Vermont Vermont 9% Oregon Minnesota 9% Washington 8% Washington 14% South Carolina 14% Alabama 15% Louisiana 15%
--

disadvantage persists into adulthood.37

866

Memphis, TN Baltimore, MD

Detroit, MI

New Orleans, LA Seattle, WA Sacramento, CA

St. Louis, MO

Bottom 5 cities

Detroit had the highest percentage at 19 year from 1990 to 1999, except in 1996 were preterm births. San Jose had the percent. The 50-city average for this City summary. Thirteen percent of births in the 50 largest cities in 1999 preterm in 1999 at 9 percent, while indicator stayed at 13 percent every lowest percent of births that were when it was 12 percent. J.S. and State summary. Nationwide,

Child Trends / KIDS COUNT Working Paper

The Right Start for America's Newborns

The Annie E. Casey Foundation

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of babies who were preterm increased from 11 percent in 1990 to 12 percent Mississippi had the highest percentage at 16 percent. Nationally, the share nearly 12 percent of births in 1999 were preterm. Vermont had the lowest percentage of births that were preterm in 1999 at 9 percent, while in 1999

## Race and Hispanic Origin

percent of births to blacks and 16 percent of births to Hispanics. However, for low-birthweight, smoking, and preterm births, values for Hispanics are With the exception of smoking during pregnancy, births to (non-Hispanic) this volume, there are substantial differences by race and Hispanic origin. all in between the values for whites and blacks. In 1999, for example, 9 whites have a lower value for each measure than births to (non-Hispanic) blacks, as shown in Table 4. Values for Hispanics often, but not always, For every measure that characterizes the well-being of U.S. newborns in percent of U.S. births to whites were to teen mothers, compared with 20 either as favorable or more favorable than the values for non-Hispanic There was also a persistent (but narrowing) gap in both low-birthweight and preterm births between blacks and both non-Hispanic whites and Hispanics. Hispanic births were low-birthweight. There was a similar 1999 pattern for premature births with 18 percent of black births premature, compared with In 1999, 13.2 percent of births to black mothers were low-birthweight. In contrast, 6.7 percent of non-Hispanic white births and 6.8 percent of 11 percent of non-Hispanic white and Hispanic births.

women in the same age range. <sup>38</sup> Moreover, for all three groups, women in insurance, compared to 23 percent of blacks and 36 percent of Hispanics measures used here might be explained by their lack of access to health care. Data from the Census Bureau indicate that only 13 percent noncentral cities are less likely to have health insurance than those in the The higher rates of negative outcomes for minorities on some of the Hispanic white women in childbearing age (15 to 44) lacked health suburbs.

Given these racial and ethnic differences, it is not surprising to note that Hispanic births are a large percentage of total births tend to have higher differences seen among cities/states are often related to differences m racial/ethnic composition in those areas. Cities in which black and/or

values for most measures than cities in which most births are to whites.

percentage of high school graduates and college graduates as white mothers, the percentage of black births that are low-birthweight would have dropped from 13.1 percent to 12.5 percent. At the same time, it is important to recognize that many of the differences educational attainment, income, and the availability of high-quality services. For example, in 1999, if black mothers had had the same between whites and minorities reflect differences in things such as

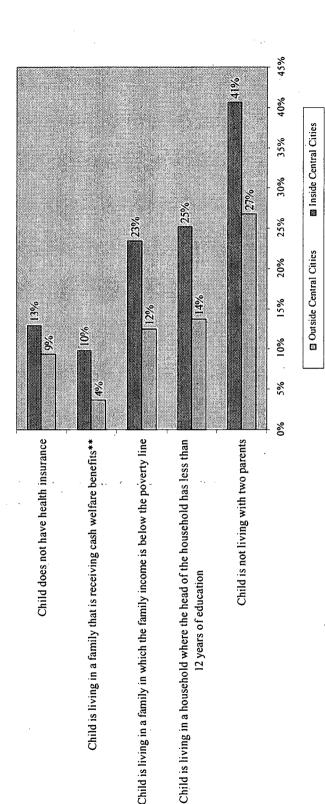
Birth measures are often examined by race and Hispanic origin because the calculated it is not possible to tabulate the measures used in this publication data are easily available. Questions about race and Hispanic origin status Columbia, while many important measures of socioeconomic status (e.g., family income) are not. Consequently, while racial differences are easily are included on births certificates in all 50 states and the District of by critical measures such as the mother's poverty status.

In short, the racial differences in birth measures are real, but it is important to recognize that many of those differences actually reflect differences in things like income, education and availability of effective services.

2

As noted in the text, exceptions are smoking, low-birthweight births and preterm births.
 Hispanics have about the same or better values for these measures as non-Hispanic whites.

# Characteristics of children inside and outside central cities,\* 2000



SOURCE: Child Trends tabulation using the March 2001 Current Population Survey.

\*Central Cities is a term used by the Census Bureau to identify large cities located at the core of metropolitan areas. Collectively, these figures represent about 500 cities nationwide. Outside central cities includes suburban as well as rural areas. \*\*Welfare benefits include payments from one or more of the following sources: TANF/AFDC, General Assistance/Emergency Assistance Program, Diversion Payments, Refugee Cash and Medical Assistance Program, or General Assistance from Bureau of Indian Affairs.

Note: The figures shown here represent about 90 percent of American children. The location (inside central city/outside central city) of some respondents was not revealed in the data file released by the Census Bureau in order to protect confidentiality.

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Child Trends / KIDS COUNT Working Paper

# Key Indicators of Births in the 50 Largest Cities and Nationwide: 1999

Indicator	50-City Average The Nation	The Nation
Percent of total births to teens	14	12
Percent of teen births to women who were already mothers	23	21
Percent of total births to unmarried women	43	33
Percent of total births to mothers with less than 12 years of education	27	22
Percent of total births to mothers receiving late or no prenatal care	5.2	3.8
Percent of total births to mothers who smoked during pregnancy*	10	13
Percent low-birthweight births (less than 5.5 pounds)	8.8	7.6
Percent preterm births (less than 37 completed weeks of gestation)	13	12

SOURCE: The figures for the 50-City Average were calculated by Child Trends based on data provided by the National Center for Health Statistics. The figures for the nation come from Ventura, S.J., Martin, J.A., Curtin, S.C., Menacker, F., and Hamilton, B.E. (2001), "Births: Final Data for 1999," National Vital Statistics Reports, Vol. 49, No. 1. Hyattsville, MD: National Center for Health Statistics.

\*Not all cities are included in the 50-city average and not all states are included in the national figure for this indicator because data were not collected in every state.

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50-city averages: 1990-1999 TABLE 2.

Percent

Number of cities with statistically significant changes from 1990 to 1999

	1990	1991	1992	1993	1994	1995	1996	1996 1997	1998	1999	Increase	No change	Decrease
Percent of total births to teens	15	16	15	15	16	15	15	15	15	14	7	18	30
Percent of teen births to women who were already mothers	27	28	58	27	25	23	24	24	24	23	_	23	31
Percent of total births to unmarried women*	14	43	43	45	44	43	43	43	43	43	39	5	10
Percent of total births to mothers with less than 12 years of education**	29	30	29	29	29	78	28	78	27	27	15	6	30
Percent of total births to mothers receiving late or no prenatal care	8.6	8.1	7.3	6.9	6.0	5.7	5.3	5.4	5.4	5.2	9	9	43
Percent of total births to mothers who smoked during pregnancy***	81	17	16	15	4	13	12	=	=	10	-	_	14
Percent low-birthweight births (less than 5.5 pounds)	8.6	8.8	8.7	8.8	8.8	8.8	8.7	8.8	8.8	8.8	10	39	9
Percent preterm births (less than 37 completed weeks of gestation)	13	13	13	13	13	13	12	13	° 13	13	61	26	10

SOURCE: 1990-1999 Natality Data Set CD Series 21, numbers 2-9, 11 and 13, National Center for Health Statistics.

<sup>\*</sup>Not all cities are included in the 1990 50-city average for this indicator because data were not reliable in every city.

<sup>\*\*</sup>Not all cities are included in the 1990 50-city average for this indicator because data were not collected for every city.

<sup>\*\*\*</sup>Not all cities are included in the 1990 and 1999 50-city averages for this indicator because data were not collected for every city.

TABLE 3

U.S. Birth Measures: 1990 -

Number of states with	statistically significant	changes from 1990 to 1999

1999						Percent					s q	statistically significant changes from 1990 to 1999	gnificant 90 to 1999
Indicator	1990	1661	1992	1993	1994	1995	1996	1997	1998	1999	Increase	No change	Decrease.
Percent of total births to teens	. 13	13	13	. 13	13	13	13	13	13	12	Ξ	91	24
Percent of teen births to women who were already mothers	24	25	25	23	. 22	21	21	22	22	21	0	9	45
Percent of total births to unmarried women*	78	30	30	31	33	32	32	32	33	33	49	0	   —
Percent of total births to mothers with less than 12 years of education**	24	24	24	23	23	23	22	, ,22 ,32	22	22	10	æ	36
Percent of total births to mothers receiving late or no prenatal care	6.1	5.8	5.2	8.4	4.4	4.2	4.0	3.9	3.9	3.8	3	2	46
Percent of total births to mothers who smoked during pregnancy***	<u>∞</u>	81	17	16	15	41	14	13	13	13	0	0	46
Percent low-birthweight births (less than 5.5 pounds)	7.0	7.1	7.1	7.2	7.3	7.3	7.4	7.5	7.6	7.6	45	5	_
Percent preterm births (less than 37 completed weeks of gestation)	=	=	=	=	=	=	=	=	12	12	49	0	2
			٠										

SOURCES: For 1990 data: "Advance Report of Final Natality Statistics, 1990." Monthly Vital Statistics Report, Vol. 41, No. 9, suppl. Hyattsville, MD: National Center for Health Statistics. For 1999 data: Ventura, S.J., Martin, J.A., Curtin, S.C., Menacker, F., and Hamilton, B.E. (2001), "Births: Final Data for 1999," National Vital Statistics Reports, Vol. 49, No. 1. Hyattsville, MD: National Center for Health Statistics.

<sup>\*</sup>Not all states are included in the 1990 U.S. average for this indicator because data were not reliable for every state.
\*\*Not all states are included in the 1990 U.S. average for this indicator because data were not collected for every state.
\*\*Not all states are included in the 1990 and 1999 U.S. averages for this indicator because data were not collected for every state.

TABLE 4

Percentage of U.S. births with selected characteristics by race and Hispanic origin, 1999

Kace/ethnicity	Teen births	Repeat teen births	Births to unmarried women	Births to mothers with low educational attainment	Late or no prenatal care	Smoking during pregnancy	Low- birthweight births	Preterm births
White non-Hispanic	9.1	17.6	22.1	12.6	2.3	15.9	6.7	10.5
Black non-Hispanic	20.1	26.6	69.1	25.9	9.9	9.4	13.2	17.6
Hispanic	16.3	23.5	42.2	49.1	6.3	3.7	6.8	11.4

SOURCE: Ventura, S.J., Martin, J.A., Curtin, S.C., Menacker, F., and Hamilton, B.E. (2001), "Births: Final Data for 1999," National Vital Statistics Reports, Vol. 49, No. 1. Hyattsville, MD: National Center for Health Statistics.

- Cities ranked by indicator, 1999
- States ranked by indicator, 1999
- Eight measures of birth well-being, annual, 1990-1999, 50 largest U.S. cities plus 5 smaller cities
- Eight measures of birth well-being, annual, 1990-1999, 50 states plus District of Columbia
- Definitions, data sources, and reporting issues for cities
- Definitions, data sources, and reporting issues for states

In addition, the primary contacts for state KIDS COUNT projects are available at http://www.aecf.org/kidscount/contacts.htm

Copies of these publications are available from The Annie E. Casey Foundation, 70! St. Paul Street, Baltimore, MD 21202, 410-547-6600, 410-547-6624 (fax), and at www.kidscount.org.

<sup>&</sup>lt;sup>2</sup> The Annie E. Casey Foundation, (1993), 1993 KIDS COUNT Data Book.

<sup>&</sup>lt;sup>2</sup> Coulton, C., and Pandey, S. (1992), "Geographic Concentration of Poverty and Risk to Children in Urban Neighborhoods," American Behavioral Scientist, Vol. 35, No.3. O'Campo, P., Xue, X., Wang, M., and Caughey, M.O. (1997), "Neighborhood Risk Factors for Low Birthweight in Baltimore: A Multilevel Analysis," American Journal of Public Health, Vol. 87, No. 7.

<sup>4</sup> Ibid.

Maynard, R.A., ed., (1997), Kids Having Kids: Economic Costs and Social Consequences of Teen Pregnancy. Washington, DC: The Urban Institute.

<sup>\*</sup>U.S. Census Bureau (2000), "Child Support 1997," October 13, 2000, <a href="http://www.census.gov/hhes/www/childsupport/97lables/lab4w.html">http://www.census.gov/hhes/www/childsupport/97lables/lab4w.html</a>

Child Trends (2001), Special tabulations of the March 2001 Current Population Survey.

Ventura, S.J., Curtin, S.C., Mathews, T.J., and Hamilton, B.E. (2001), "Births to Teenagers in the United States, 1940-2000" National Vital Statistics Reports, Vol. 49, No. 10. Hyattsville, MD: National Center for Health Statistics.

Mathews, T.J. (2001), "Smoking during Pregnancy in the 1990s," National Vital Statistics Reports, Vol. 49, No. 7. Hyattsville, MD: National Center for Health Statistics.

<sup>10</sup> Ventura, S.J., Curtin, S.C., Mathews, T.J., and Hamilton, B.E. (2001), "Births to Teenagers in the United States, 1940-2000" National Vital Statistics Reports, Vol. 49, No. 10. Hyattsville, MD: National Center for Health Statistics.

<sup>11</sup> The "top 5" and "bottom 5" states are the same when ranked by births per thousand teens.

<sup>12</sup> Ibid.

<sup>&</sup>lt;sup>13</sup> Akinbami, L.J., Schoendorf, K.C., and Kiely, J.L. (2000), "Risk of Preterm Birth in Multiparous Teenagers," Archives of Pediatrics & Adolescent Medicine, Vol. 154, No. 11.

<sup>&</sup>lt;sup>14</sup> Garfinkel, I. and McLanahan, S.S. (1986), Single Mothers and Their Children, The Urban Institute, Washington, DC, pp. 1-2.

<sup>18</sup> Popenoe, D. (1996), Life Without Father: Compelling New Evidence that Fatherhood and Marriage Are Indispensable for the Good of Children and Society, New York, NY: The Free Press..

<sup>&</sup>lt;sup>16</sup> Mathews, T.J., Curtin, S.C., and MacDorman, M.F. (2000), "Infant Mortality Statistics from the 1998 Period Linked Birth/Infant Death Data Set," National Vital Statistics Reports, Vol. 48, No. 12. Hyattsville, MD: National Center for Health Statistics.

<sup>17</sup> Ventura, S.J. (1995), "Births to Unmarried Mothers: United States, 1980-1992," Vital and Health Statistics, Vol. 21, No. 53, Hyattsville, MD: National Center for Health Statistics.

- <sup>18</sup> Child Trends (2001), Special tabulations of the March 2001 Current Population Survey.
- <sup>19</sup> Grall, T., (2000), "Child Support for Custodial Mothers and Fathers," Current Population Reports, P60-212.Suitland, MD: U.S. Census Bureau.
- Dentura, S.J., and Bachrach, C.A. (2000), "Nonmarital childbearing in the United States, 1940-1999," National Vital Statistics Reports, Vol. 48, No. 16. Hyattsville, MD: National Center for Health
- <sup>21</sup> Haveman, R.B. and Wolfe, B. (1995), "The Determinants of Children's Attainments: A Review of Methods and Findings," Journal of Economic Literature, Vol. 33, No. 4.
- <sup>22</sup> Mathews, T.J., Curtin, S.C., and MacDorman, M.F. (2000), "Infant Mortality Statistics from the 1998 Period Linked Birth/Infant Death Data Set," National Vital Statistics Reports, Vol. 48, No. 12. Hyattsville, MD: National Center for Health Statistics.
- <sup>23</sup> Ventura, S.J., Martin, J.A., Curtin, S.C., Mathews, T.J., and Park, M.M. (2000), "Births: Final Data for 1998," National Vital Statistics Reports, Vol. 48, No. 3. Hyattsville, MD: National Center for Health Statistics; Ventura, S.J., Martin, J.A., Curtin, S.C., Menacker, F., and Hamilton, B.E. (2001), "Births: Final Data for 1999," National Vital Statistics Reports, Vol. 49, No. 1. Hyattsville, MD: National Center for Health Statistics
- <sup>24</sup> Child Trends (2001), Special tabulations of the March 2001 Current Population Survey.
- <sup>23</sup> Mathews, T.J. (1998), "Smoking During Pregnancy, 1990-96," National Vital Statistics Reports, Vol. 47, No. 10, Hyattsville, MD: National Center for Health Statistics, p. 1.
- <sup>26</sup> Brennan, P.A., Grekin, E.R., Mortensen, E.L., Mednick, S.A. (2002), "Relationship of Maternal Smoking During Pregnancy with Criminal Arrest and Hospitalization for Substance Abuse in Male and Female Adult Offspring," American Journal of Psychiatry, Vol. 159, No. 1, pp. 48-54.
- <sup>27</sup> Hediger, M.L., Overpeck, M.D., Ruan, W.J., and Troendle, J.F. (2002), "Birthweight and Gestational Age Effects on Motor and Social Development," Paediatric and Perinatal Epidemiology, Vol. 16.
- <sup>28</sup> Mathews, T.J., Curtin, S.C., and MacDorman, M.F. (2000), "Infant Mortality Statistics from the 1998 Period Linked Birth/Infant Death Data Set," National Vital Statistics Reports, Vol. 48, No. 12. Hyattsville, MD: National Center for Health Statistics.
- 29 MacDorman, M.F. and Atkinson, J.O. (1999), "Infant Mortality Statistics from the 1997 Period Linked Birth/Infant Death Data Set," National Vital Statistics Reports, Vol. 47, No. 23. Hyattsville, MD: National Center for Health Statistics.
- <sup>30</sup> Mills, R.J., (2001), "Health Insurance: 2000," Current Population Reports, P60-215. Suitland, MD: U.S. Census Bureau.
- <sup>31</sup> Child Trends (2001), Special tabulations of the March 2001 Current Population Survey.
- <sup>32</sup> Ventura, S.J., Martin, J.A., Curtin, S.C., Menacker, F., and Hamilton, B.E. (2001), "Births: Final Data for 1999," National Vital Statistics Reports, Vol. 49, No. 1. Hyattsville, MD: National Center for Health Statistics.
- 33 Ibid.
- ™ Ibid.
- 36 Hediger, M.L., Overpeck, M.D., Ruan, W.J., and Troendle, J.F. (2002), "Birthweight and Gestational Age Effects on Motor and Social Development," Puediatric and Perinatal Epidemiology, Vol. 16.
- <sup>37</sup> Hack, M., Flannery, D.J., Schluchter, M., Cartar, L., Borawski, E., and Klein, N. (2002), "Outcomes in Young Adulthood for Very-low-birth-weight Infants," The New England Journal of Medicine, Vol. 346, No. 3, pp. 149-157.
- <sup>38</sup> The Annie E. Casey Foundation (2002) Special tabulation of the March 2001 Current Population Survey
- 39 Child Trends calculations based on data from 1999 Natality Data Set CD Series 21, number 13, National Center for Health Statistics.



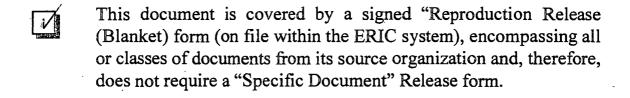
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